

Application No.: 09/876,160

Docket No.: 20402-00625-US

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A capacitor type of microphone having a microphone output terminal, the microphone comprising:

a member for shielding the microphone from electromagnetic waves;

a movable electrode vibrating in response to a sound vibration;

a fixed electrode arranged face to face ~~to~~with the movable electrode;

a first amplification means for buffer-amplifying a terminal voltage, the circuit located between the movable electrode and the fixed electrode; and

a second amplification means cascaded to the first amplification means circuit between an output terminal of the first amplification means circuit and the microphone output terminal,

wherein the shielding member surrounds the movable electrode, the fixed electrode, the first amplification circuit, and the second amplification means.

2. (Currently Amended) The microphone according to claim 1, wherein the second amplification circuit includes drive means, in which a power supply to the drive means is configured so that the power is obtained as a constant current from outside the microphone via the microphone output terminal.

3. (Currently Amended) The microphone according to claim 1, wherein the second amplification circuit includes drive means, in which a power supply to the drive means is configured so that the power is temporarily obtained for storage through the microphone output terminal according to voltage values and the stored voltage is used when obtaining the power is stopped.

4. (Currently Amended) The microphone according to claim 1, wherein the second amplification ~~means is composed of~~circuit has an FET (field effect transistor) structured into a gate-common amplification circuit, ~~a source electrode of the FET~~ having a source electrode receiving an output current of the first amplification ~~means circuit~~ and current from a drain electrode ~~current of the FET passing to the microphone output terminal.~~

Application No.: 09/876,160

Docket No.: 20402-00625-US

5. (Currently Amended) The microphone according to claim ~~18~~, wherein the second amplification ~~means is composed of circuit~~ has a junction type of transistor structured into a base-common amplification circuit, ~~an emitter electrode of the transistor~~ having an emitter receiving an output current of the first amplification ~~means circuit~~ and current from a collector ~~current of~~ the transistor passing ~~to the~~ microphone output terminal.

6. (Currently Amended) The microphone according to claim 4, wherein the ~~second amplification means is composed of gate of~~ the FET ~~of which gate is~~ connected to a common output terminal of the first amplification ~~means circuit~~, the source electrode of the FET receiving the output current of the first amplification ~~means circuit~~ and current from the drain ~~current of~~ the FET passing ~~to the~~ microphone output terminal.

7. (Currently Amended) The microphone according to claim ~~18~~, wherein each of the first and second amplification ~~means is composed of circuit~~ has an FET (field effect transistor).

8. (New) A capacitor type of microphone having a microphone output terminal, the microphone comprising:

- a member for shielding the microphone from electromagnetic waves;
 - a movable electrode vibrating in response to a sound vibration;
 - a fixed electrode arranged face to face with the movable electrode;
 - a first amplification circuit for buffer-amplifying a terminal voltage, the circuit located between the movable electrode and the fixed electrode; and
 - a second amplification circuit cascaded to the first amplification circuit between an output terminal of the first amplification circuit and the microphone output terminal,
- wherein the shielding member surrounds the movable electrode, the fixed electrode, the first amplification circuit, and the second amplification circuit.

Application No.: 09/876,160

Docket No.: 20402-00625-US

9. (New) The microphone according to claim 2, wherein the second amplification circuit has an FET (field effect transistor) structured into a gate-common amplification circuit, the FET having a source electrode receiving an output current of the first amplification circuit and current from a drain electrode of the FET passing to the microphone output terminal.

10. (New) The microphone according to claim 9, wherein the gate of the FET is connected to a common output terminal of the first amplification circuit, the source electrode of the FET receiving the output current of the first amplification circuit and the drain current of the FET passing the microphone output terminal.

11. (New) A capacitor type of microphone having a microphone output terminal, the microphone comprising:

- a member for shielding the microphone from electromagnetic waves;

- a movable electrode vibrating in response to a sound vibration;

- a fixed electrode arranged face to face with the movable electrode;

- a first amplification circuit for buffer-amplifying a terminal voltage, the circuit located between the movable electrode and the fixed electrode; and

- a second amplification circuit cascaded to the first amplification circuit between an output terminal of the first amplification circuit and the microphone output terminal and formed to have an FET (field effect transistor) of which gate is grounded to form a gate-common transistor circuit,

wherein the shielding member surrounds the movable electrode, the fixed electrode, the first amplification circuit, and the second amplification circuit.

12. (New) The microphone according to claim 12, wherein the second amplification circuit includes drive means, in which a power supply to the drive means is configured so that the power is obtained as a constant current from outside the microphone via the microphone output terminal.

Application No.: 09/876,160**Docket No.: 20402-00625-US**

13. (New) The microphone according to claim 12, wherein the FET of the second amplification circuit has a source electrode receiving an output current of the first amplification circuit and a drain current coming from the FET passing the microphone output terminal.